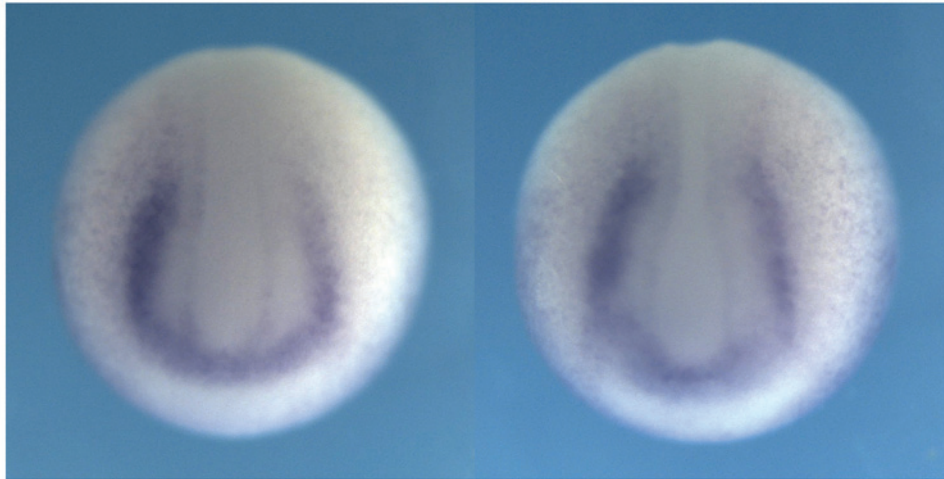
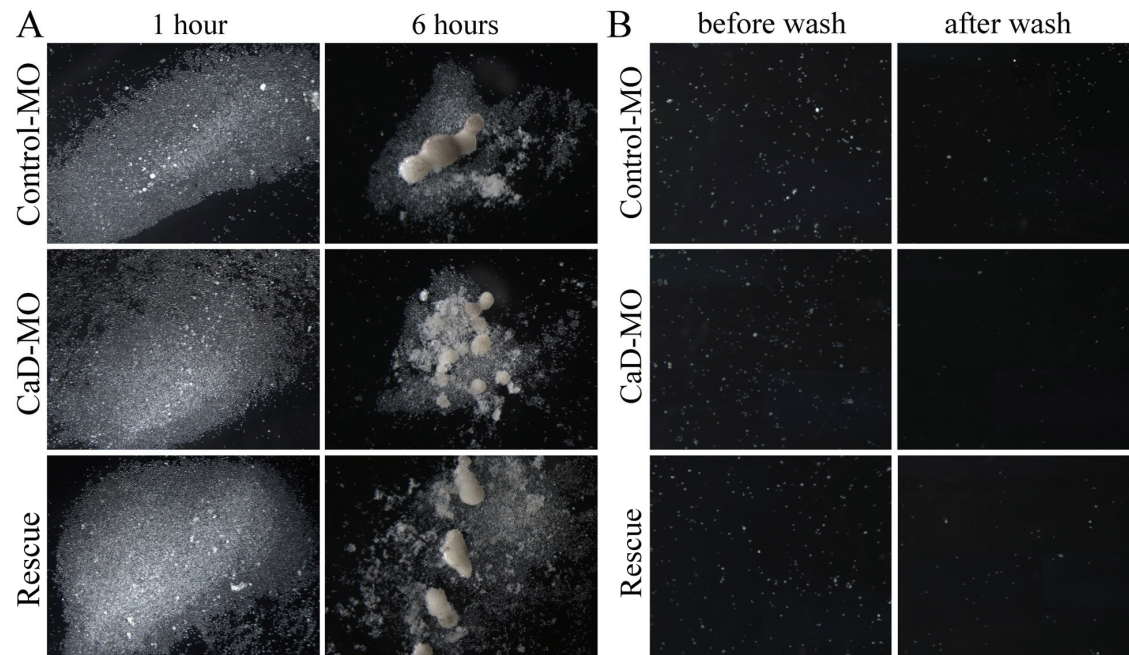


Supplementary Figure 1. CaD-MO efficiently inhibits CaD protein translation. Protein extracted from uninjected and CaD-MO injected CNC tissue was resolved on SDS page gel and blot against CaD antibody (Santa Cruz Biotechnology, sc-15374). No CaD protein was detected from CaD-MO expressing tissue indicating CaD-MO efficiently blocked CaD translation. Blotting against α -tubulin antibody served as loading control.



Supplementary Figure 2. Expression of CaD in preplacodal region. Anterior views of stage 13-14 embryos show that CaD is expressed in anterior and lateral borders of the rostral neural plate, where prospective placodes and cranial neural crest will arise. Dorsal is oriented to the top.



Supplementary Figure 3. CaD-MO disrupts CNC cell adhesion. (A) Cell-cell adhesion examined by dissociation/reaggregation experiments. While control-MO expressing CNC cells reagggregated into one big cell clump at 6 hours, CaD-MO expressing cells only grouped to medium sized aggregates. (B) Cell adhesion on FN matrix. Dissociated cells were plated on FN-coated dish for an hour and unattached cells were washed away by flipping over the dish. Much fewer cells remained on the FN plate in CaD-MO treated cells.